

## Exhibit 300: Capital Asset Plan and Business Case Summary

### Part I: Summary Information And Justification (All Capital Assets)

#### Section A: Overview (All Capital Assets)

**1. Date of Submission:** 2010-03-10 09:20:13

**2. Agency:** 007

**3. Bureau:** 17

**4. Name of this Investment:** JOINT PRECISION APPROACH AND LANDING SYSTEM

**5. Unique Project (Investment) Identifier:** 007-17-01-14-01-6189-00

**6. What kind of investment will this be in FY 2011?:** Full-Acquisition

- Planning
- Full Acquisition
- Operations and Maintenance
- Mixed Life Cycle
- Multi-Agency Collaboration

**7. What was the first budget year this investment was submitted to OMB? \***

**8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap; this description may include links to relevant information which should include relevant GAO reports, and links to relevant findings of independent audits.**

JPALS will provide a rapidly deployable, adverse weather, adverse terrain, day-night, survivable, and mobile Precision Approach and Landing Capability that supports the principles of forward presence, crisis response and mobility. JPALS will enable U.S. forces to safely land aircraft on any suitable surface world-wide (land and sea), with ceiling and/or visibility the limiting factor. The capability will support interoperability among the Department of Defense (DoD) in support of joint operations, training and logistics and provide interoperability with the domestic and international air traffic control/airspace system. JPALS is intended to be interoperable with military forces of allied nations and to replace existing landing systems such as Instrument Landing Systems (ILS), Microwave landing Systems (MLS), Precision Approach Radar (PAR), and Automatic Carrier Landing Systems (ACLS). These systems are currently facing sustainment issues and are not interoperable with each other and require different avionics on the aircraft. JPALS will allow DoD to have one standard landing system, which will reduce overall operational costs. An Analysis of Alternatives (AoA) was initially conducted from July of 1996 to August 1997. Local Area Differential GPS (LDGPS) was identified as the most promising technology alternative that satisfied the requirements of the Operational Requirements Document (ORD). In April 2004, the J-8 staff determined that the JPALS Mission Need Statement required replacement by an Initial Capabilities Document (ICD). The ICD was validated and signed by the Joint Requirements Oversight Council on 19 September 05. The AoA was updated in April 2005. The conclusions reached were used to start the High Performance Team process to generate a Capabilities Development Document (CDD). The CDD was used to produce the final version of the performance specification. When the CDD was signed in March 2007, the Navy became Lead Service for the program. The JPALS Development contract was competitively awarded to Raytheon Corporation on 17 July 08. Following contract award on 30 July 08, a General Accounting Office (GAO) bid protest against the contract award was issued with an associated stop work order. Subsequently, the bid protest was withdrawn and a contract restart letter was issued on 15 Sep 08. Sea-based JPALS is planned to achieve Initial Operating Capability (IOC) in 2014, with Land-based JPALS following in 2016.

- a. Provide here the date of any approved rebaselining within the past year, the date for the most recent (or planned) alternatives analysis for this investment, and whether this investment has a risk management plan and risk register.**

**9. Did the Agency's Executive/Investment Committee approve this request? \***

a. If "yes," what was the date of this approval? \*

**10. Contact information of Program/Project Manager?**

- Name: \*
- Phone Number: \*
- Email: \*

**11. What project management qualifications does the Project Manager have? (per FAC-P/PM)? \***

- Project manager has been validated according to FAC-PMPM or DAWIA criteria as qualified for this investment.
- Project manager qualifications according to FAC-P/PM or DAWIA criteria is under review for this investment.
- Project manager assigned to investment, but does not meet requirements according to FAC-P/OM or DAWIA criteria.
- Project manager assigned but qualification status review has not yet started.
- No project manager has yet been assigned to this investment.

**12. If this investment is a financial management system, then please fill out the following as reported in the most recent financial systems inventory (FMSI):**

Financial management system name(s)	System acronym	Unique Project Identifier (UPI) number
*	*	*

**a. If this investment is a financial management system AND the investment is part of the core financial system then select the primary FFMIA compliance area that this investment addresses (choose only one): \***

- computer system security requirement;
- internal control system requirement;
- core financial system requirement according to FSIO standards;
- Federal accounting standard;
- U.S. Government Standard General Ledger at the Transaction Level;
- this is a core financial system, but does not address a FFMIA compliance area;
- Not a core financial system; does not need to comply with FFMIA

## Section B: Summary of Funding (Budget Authority for Capital Assets)

1. **Table 1: SUMMARY OF FUNDING FOR PROJECT PHASES**  
(REPORTED IN MILLIONS)  
(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)

	PY1 and earlier	PY 2009	CY 2010	BY 2011	BY+1 2012	BY+2 2013	BY+3 2014	BY+4 and beyond	Total
Planning:	*	*	*	*	*	*	*	*	*
Acquisition:	*	*	*	*	*	*	*	*	*
Subtotal Planning & Acquisition:	*	*	*	*	*	*	*	*	*
Operations & Maintenance:	*	*	*	*	*	*	*	*	*
Disposition Costs (optional):	*	*	*	*	*	*	*	*	*
<b>SUBTOTAL:</b>	*	*	*	*	*	*	*	*	*
<b>Government FTE Costs should not be included in the amounts provided above.</b>									
Government FTE Costs	*	*	*	*	*	*	*	*	*
Number of FTE represented by Costs:	*	*	*	*	*	*	*	*	*
<b>TOTAL(including FTE costs)</b>	*	*	*	*	*	*	*	*	*

2. If the summary of funding has changed from the FY 2010 President's Budget request, briefly explain those changes:

\*

## Section C: Acquisition/Contract Strategy (All Capital Assets)

1.

Table 1: Contracts/Task Orders Table

Contract or Task Order Number	Type of Contract/ Task Order (In accordance with FAR Part 16)	Has the contract been awarded (Y/N)	If so what is the date of the award? If not, what is the planned award date?	Start date of Contract/ Task Order	End date of Contract/ Task Order	Total Value of Contract/ Task Order (M)	Is this an Interagency Acquisition? (Y/N)	Is it performance based? (Y/N)	Competitively awarded? (Y/N)	What, if any, alternative financing option is being used? (ESPC, UESC, EUL, N/A)	Is EVM in the contract? (Y/N)
H94003-04-D-0008/0001 Honeywell Air Force through the SPO Technology Maturation	CPFF	Y	2007-07-13	2007-07-13	2009-07-31	\$5.3	*	*	*	*	*
FA8721-06-R-002 Air Force Technology Development Risk Reduction	T&M	Y	2007-02-05	2007-03-01	2011-02-28	\$2.3	*	*	*	*	*
FA8721-07OF-0040 Air Force Technology Development Risk Reduction	T&M	Y	2007-07-02	2007-07-02	2007-12-31	\$1.6	*	*	*	*	*
N00019-08-C-0034 EMD Contract - Raytheon.	Cost plus incentive fee	Y	2008-07-18	2008-09-15	2013-03-12	\$232.0	*	*	*	*	*
E-133-L-07-018	T&M	Y	2007-01-01	2007-01-01	2007-12-31	\$0.0	*	*	*	*	*
DAAB07-03-D-B006/0207 ARMY ARINC Cr2 development CECOM Rapid Response (CR2)	T&M	Y	2007-04-04	2007-04-04	2009-04-03	\$3.0	*	*	*	*	*
DAAB07-03-D-B006/0218 ARMY ARINC Cr2	T&M	Y	2007-05-31	2007-05-31	2008-05-30	\$0.0	*	*	*	*	*

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Contract or Task Order Number	Type of Contract/ Task Order (In accordance with FAR Part 16)	Has the contract been awarded (Y/N)	If so what is the date of the award? If not, what is the planned award date?	Start date of Contract/ Task Order	End date of Contract/ Task Order	Total Value of Contract/ Task Order (M)	Is this an Interagency Acquisition? (Y/N)	Is it performance based? (Y/N)	Competitively awarded? (Y/N)	What, if any, alternative financing option is being used? (ESPC, UESC, EUL, N/A)	Is EVM in the contract? (Y/N)
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development  
ent  
CECOM  
Rapid

N0001907-C-0022 BAA Technology Development Engineering Services	FFP	Y	2007-02-15	2007-02-15	2007-09-28	\$1.3	*	*	*	*	*
N0001907C0020 BAA Technology Development Engineering Services	FFP	Y	2007-01-24	2007-01-24	2007-10-31	\$6.7	*	*	*	*	*
N0001907C0021	FFP	Y	2007-02-01	2007-02-01	2007-07-31	\$0.0	*	*	*	*	*

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

\*

3. Is there an acquisition plan which reflects the requirements of FAR Subpart 7.1 and has been approved in accordance with agency requirements? \*

a. If "yes," what is the date? \*

## Section D: Performance Information (All Capital Assets)

Table 1: Performance Information Table

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2009	RESHAPING THE DEFENSE ENTERPRISE	*	*	Network Ready: Must support Net-Centric military operations & exchange data in a secure manner & continuously provide survivable, inter-operable, secure, and operationally effective information exchanges to enable a Net-Centric military capability.	System must fully support execution of joint critical operational activities identified in applicable joint and system integrated architectures and the system must satisfy the technical requirements for transition to Net-Centric military operations.	System must fully support execution of joint critical operational activities identified in applicable joint and system integrated architectures and the system must satisfy the technical requirements for transition to Net-Centric military operations.	System Development & Demonstration now referred to as the Engineering and Manufacturing Development Contract was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.
2009	RESHAPING THE DEFENSE ENTERPRISE	*	*	Guidance Quality	Sufficient quality to allow the Service to certify the sea-based system for use in 200 ft ceiling and ½ NM visibility weather conditions.	Certification for operations in 0 ft ceiling and 0 NM visibility conditions.	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.
2009	RESHAPING THE DEFENSE ENTERPRISE	*	*	Manpower	Total number of dedicated maintenance and/or logistics personnel needed to support JPALS per shift shall be no more than one person. The number of qualified final controller positions per shift on CVN/LH ship shall be no more than two controllers.	Should reduce current manning levels when currently fielded systems are phased out & require no dedicated personnel. Should be reduced to no more than one qualified air traffic controller.	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.
2009	RESHAPING THE DEFENSE ENTERPRISE	*	*	Operational Availability in Clear Air	JPALS Ao requirement in clear air for manned aircraft	JPALS Ao requirement in clear air for manned aircraft	System Development & Demonstration Contract now

Table 1: Performance Information Table

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
					to 200 ft – ½ NM mins shall be at least 99.0%.	to 200 ft – ½ NM mins should be at least 99.7%.	referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.
2010	RESHAPING THE DEFENSE ENTERPRISE	*	*	Network Ready: Must support Net-Centric military operations & exchange data in a secure manner & continuously provide survivable, inter-operable, secure, and operationally effective information exchanges to enable a Net-Centric military capability.	System must fully support execution of joint critical operational activities identified in applicable joint and system integrated architectures and the system must satisfy the technical requirements for transition to Net-Centric military operations.	System must fully support execution of joint critical operational activities identified in applicable joint and system integrated architectures and the system must satisfy the technical requirements for transition to Net-Centric military operations.	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.
2010	RESHAPING THE DEFENSE ENTERPRISE	*	*	Guidance Quality	Sufficient quality to allow the Service to certify the sea-based system for use in 200 ft ceiling and ½ NM visibility weather conditions.	Certification for operations in 0 ft ceiling and 0 NM visibility conditions.	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.
2010	RESHAPING THE DEFENSE ENTERPRISE	*	*	Manpower	Total number of dedicated maintenance and/or logistics personnel needed to support JPALS per shift shall be no more than one person. The number of qualified final	Should reduce current manning levels when currently fielded systems are phased out & require no dedicated personnel. Should be reduced to no more than one	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key

Table 1: Performance Information Table

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
					controller positions per shift on CVN/LH ship shall be no more than two controllers.	qualified air traffic controller.	Performance Parameters outlined in the approved Acquisition Program Baseline.
2010	RESHAPING THE DEFENSE ENTERPRISE	*	*	Operational Availability in Clear Air	Set-up tactical system using three people in one hour.	Set-up tactical system using two people in 45 minutes	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.
2011	RESHAPING THE DEFENSE ENTERPRISE	*	*	Guidance Quality	Sufficient quality to allow the Service to certify the sea-based system for use in 200 ft ceiling and ½ NM visibility weather conditions.	Certification for operations in 0 ft ceiling and 0 NM visibility conditions.	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.
2011	RESHAPING THE DEFENSE ENTERPRISE	*	*	Network Ready: Must support Net-Centric military operations & exchange data in a secure manner & continuously provide survivable, inter-operable, secure, and operationally effective information exchanges to enable a Net-Centric military capability.	Current analysis shows that the tactical JPALS can support category one landing requirements	Analysis shows that the tactical JPALS can support category three landing requirements	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.



Table 1: Performance Information Table

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2011	RESHAPING THE DEFENSE ENTERPRISE	*	*	Manpower	Total number of dedicated maintenance and/or logistics personnel needed to support JPALS per shift shall be no more than one person. The number of qualified final controller positions per shift on CVN/LH ship shall be no more than two controllers.	Should reduce current manning levels when currently fielded systems are phased out & require no dedicated personnel. Should be reduced to no more than one qualified air traffic controller.	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.
2011	RESHAPING THE DEFENSE ENTERPRISE	*	*	Operational Availability in Clear Air	JPALS Ao requirement in clear air for manned aircraft to 200 ft – ½ NM mins shall be at least 99.0%.	JPALS Ao requirement in clear air for manned aircraft to 200 ft – ½ NM mins should be at least 99.7%.	System Development & Demonstration Contract now referred to as the Engineering and Manufacturing Development was awarded July 2008 to meet the Key Performance Parameters outlined in the approved Acquisition Program Baseline.

## Part II: Planning, Acquisition And Performance Information

### Section A: Cost and Schedule Performance (All Capital Assets)

1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline								
Description of Milestones	Planned Cost (\$M)	Actual Cost (\$M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
NAVY JPALS Inc 1A Sea Based Pre MSB activities; technology maturation, algorithm development, demonstration s with ship, aircraft test platforms, anti-jam development, refined accuracy, fostered competition developing multiple contractors.	\$84.8	\$84.8	1995-01-01	1995-01-01	2008-01-11	2008-07-15	100.00%	100.00%
NAVY JPALS Inc 1B MSB activities, such as development/integration to enable F/A-18 E/F, EA-18G, MH-60 R/S the ability to utilize the JPALS sea-based system. Development and integration are inclusive of design/build/test for the initial EDM aircraft	*	*	2011-12-01		2015-09-30		0.00%	0.00%
NAVY Inc1A JPALS MSB Engineering Manufacturing and Development of a sea based JPALS system. Activities include requirements definition, HW design and SW development,	\$631.2	\$142.0	2008-09-15	2008-09-15	2014-09-30		23.00%	23.00%

1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline								
Description of Milestones	Planned Cost (\$M)	Actual Cost (\$M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
development and operation test, development of acft test pallet.								
Army Inc1 and Inc2 unique JPALS dev. and integ. efforts. These efforts would cover unique aspects of Army requirements for land based JPALS as well as development and integration of avionics into A/C to allow them to utilize Sea and land based JPALS	\$176.6	\$13.8	2008-10-01	2008-10-01	2024-09-30		8.00%	8.00%
Air Force JPALS Inc 2 Land Based Pre MSB activities; technology maturation, algorithm development, aircraft test platforms, anti-jam development, refined accuracy, fostered competition developing multiple contract	\$189.2	\$126.7	1995-01-01	1995-01-01	2013-09-30		67.00%	67.00%
Air Force JPALS MSB Engineering Manufacturing and Development of a land based JPALS system. Activities include requirements definition, HW design and SW development, development and operation test,	*	*	2013-10-01		2017-09-30		0.00%	0.00%

1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline								
Description of Milestones	Planned Cost (\$M)	Actual Cost (\$M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
development of aircraft test pallet.								

\* - Indicates data is redacted.